

MONTHLY NOTICES

OF THE

ROYAL ASTRONOMICAL SOCIETY.

VOL. LVII.

NOVEMBER 13, 1896.

No. 1

A. A. COMMON, LL.D., F.R.S., President, in the Chair.

Lewis Evans, J.P., F.S.A., Barnes Lodge, King's Langley,
Herts ; and

John Anderton Greenwood, B.A., LL.M., Brooklyn, Earl's
Court Square, S.W.,

were balloted for and duly elected Fellows of the Society.

The following Candidates were proposed for election as
Fellows of the Society, the names of the proposers from
personal knowledge being appended :—

William Johnston, Saint Nicholas House, Westgate Street,
Gloucester (proposed by J. McCarthy) ;

George Edward Lumsden, Assistant Secretary of the Province
of Ontario, 57 Elm Avenue, Toronto, Canada (proposed
by S. W. Burnham) ;

Major Percy Alexander MacMahon, R.E., F.R.S., Artillery
College, Woolwich, and 52 Shaftesbury Avenue, W. (pro-
posed by A. A. Common) ;

Louis C. H. Maston, Banker, San Francisco, California, U.S.A
(proposed by H. H. Turner) ;

Beauchamp Prideaux Selby, J.P., Pawston, Cornhill-on-
Tweed, R.S.O., Northumberland (proposed by John
Browning) ;

B

J. E. de Villiers, Government Surveyor, Cape Town (proposed by David Gill); and
 John Watson, Norman Villa, Glossop Road, Sheffield (proposed by W. J. B. Roome).

Two hundred and twenty presents were announced as having been received since the last meeting, including, amongst others:—

Cayley's Collected Mathematical Papers, vol. x., presented by the Cambridge University Press; Catalog der Astronomischen Gesellschaft, Zone $+15^{\circ}$ bis $+20^{\circ}$, presented by the Society; the Indian Calendar, with tables of eclipses, &c., presented by Robert Sewell; Laplace, Œuvres Complètes, tome xi., presented by the Paris Academy; Lœwy and Puiseux, Atlas Photographique de la Lune, fasc. I., presented by the authors; W. T. Lynn, Remarkable Eclipses, presented by the author; Map of India, showing path of eclipse of January 1898, presented by the Surveyor-General; *Venus-Durchgänge*, 1874 und 1882, Bericht über die deutschen Beobachtungen, Band vi., presented by the German Transit of *Venus* Commission; Original negatives of *Jupiter* and the Moon, photographs of *Mars*, and Sun-spot, and portrait of W. Chauvenet, presented by the Lick Observatory; Series of thirteen transparencies of the Milky Way, &c., presented by E. E. Barnard; series of fifteen photographs of the Milky Way, &c., presented by Max Wolf; Photographs of the spectrum of the zinc arc, presented by Henry Crew.

Mean Areas and Heliographic Latitudes of Sun-spots in the Year 1894, deduced from Photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India), and in Mauritius.

(Communicated by the Astronomer Royal.)

The results here given are in continuation of those printed in the *Monthly Notices*, vol. lvi. p. 11, and are deduced from the measurements of solar photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn, India, and at the Royal Alfred Observatory, Mauritius.

Table I. gives the mean daily areas of umbræ, whole spots, and faculæ for each synodic rotation of the Sun in 1894; and Table II. gives the same particulars for the entire year 1894, and the five preceding years for the sake of comparison. The areas are given in two forms. First, projected areas—that is to say, as seen and measured on the photographs—these being expressed in